

1                   ABSTRACT

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3         An optical device with a tape carrier package is provided for low cost packaging and  
4         better stability. The optical device comprises: an optical sensor chip having a plurality of  
5         electrodes on its sensible surface; a flexible circuit board having an upside surface, an  
6         underside surface and a window; a plurality of metal circuits formed on the flexible  
7         circuit board and each of them having an inner lead extending into the window for  
8         bonding with the corresponding electrode; a base having a recession which is  
9         corresponding to the window and located under the underside surface of the flexible  
10        circuit board, and having a surrounding dam which extends onto the upside surface of the  
11        flexible circuit boards; and a transparent cover fixed attached to the surrounding dam for  
12        sealing the optical sensor chip.

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